



dynamics - gyroscope



Experiment: Conservation of angular momentum



DM350-1D Rotating stool

For demonstrating the conservation of angular momentum
Stool mounted on virtually friction-free ball bearing, with 5 feet, green powder-coated, with foot rest, solid wooden seat
Seat D= approx. 335 mm,
Height= approx. 600 mm

DM351-1H Dumbbells, pair

Iron dumbbells for use in experiments with rotating stool DM350-1D
Dimensions: 195x60/25 mm;
weight: approx. 2 kg each



Experiment: Bicycle wheel gyroscope



DM351-1F Bicycle wheel gyroscope

For demonstrating conservation of angular momentum; wheel with spokes (24"), wheel rim with lead inlay; two handles, one of which is removable; groove for cord; metal bearing on one side with protruding ball for setting in clamp socket with bearing cup or for suspension from a cord, dimensions: D=approx. 600 mm, W (with handles) = approx. 350 mm
Handles: 32x120 mm each, groove for cord D=55 mm

DM352-2A Cord for spinning with handle

Cord length: approx. 150 cm

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Experiment: Bicycle wheel gyroscope hanging on a string



DM352-1H Clamp socket with bearing cup on sliding saddle

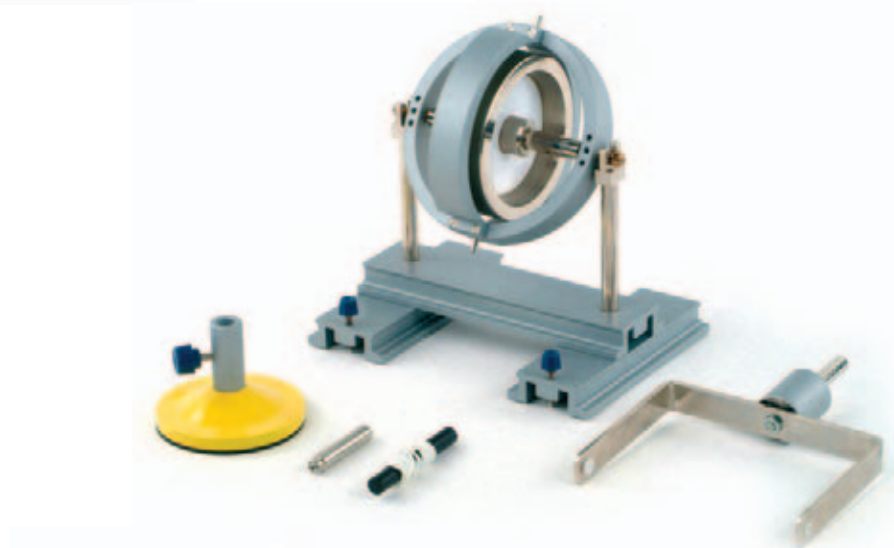
Clamp socket column L=310mm, for mounting on large support base DS101-1G, with bearing cup for holding spherical metal bearing of bicycle wheel gyroscope DM351-1F



Experiment: Bicycle wheel gyroscope on bearing cup



Experiment: Free gyroscope



DM354-1K Gyroscope, complete set

For demonstrating the characteristics of a freely moving gyroscope as well as its precessional motion

Massive, cylindrical gyroscope suspended from gimbals, long duration of rotation due to beryllium-bronze axis bearings
Supplied with permanently mounted fork on small h-shaped base with levelling screws (for mounting when spun with cord), flexible metal fork on support rod with double ball bearings, round base, support rod with bearing cup and cone, cord for spinning with handle
Gyroscope: 100x30 mm, approx. 1400 g
Total dimensions: 195x140x210 mm

Experiment: Gyroscope standing on point



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P1355-1K Gyroscope "compact"

For demonstrating the characteristics of a gyroscope; heavy metal wheel with spokes, ball-bearing mounted on support rod, $D=10$ mm, $L=50$ mm, with ball-shaped end, powered by hand or by connecting to drive motor DS403-2S by means of drive shaft P1355-1S (see illustration)

Gyroscope: $D=80$ mm; weight: approx. 250 g
Total dimensions: $D=80$ mm, $H=78$ mm

P1355-1S Drive shaft for gyroscope "compact"

Aluminium cylinder 28×17 mm, with 2 plug pins, on support rod $D=10$ mm, $L=35$ mm

P1355-1G Bearing axle for gyroscope "compact"

Metal axle, $D=4$ mm, $L=50$ mm, with bearing cup for upright gyroscope, on support stand $D=10$ mm, $L=35$ mm

DM352-2R Symmetrically rotating objects, set

For observing how objects of different shape rotate at different speeds around their own free axes in each case

3 metal objects of different shape with hook, cord and support rod, $D=10$ mm, $L=40$ mm

1 x Rod $D=10$ mm, $L=60$ mm

1 x Cone $D=40$ mm, $H=60$ mm

1 x Ring $D_a=60$ mm, $W=10$ mm



Detail: Gyroscope driven by drive shaft clamped in drive motor DS403-2S



Experiment: Suspended gyroscope



Experiment: Gyroscope balancing on tip



Experiment: Ring rotates about its own free axis